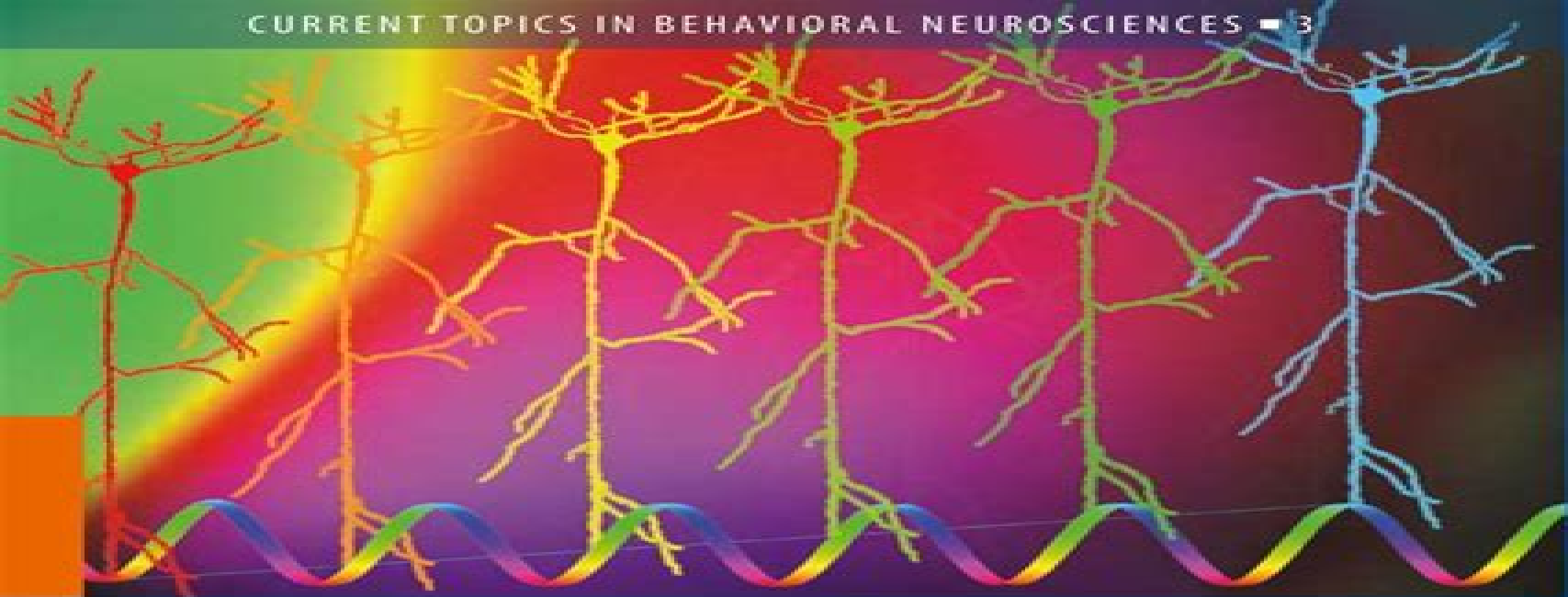




Behavioral Neuroscience of Drug Addiction

David W. Self
Julie K. Staley
Editors

 Springer

Behavioral Neuroscience Of Drug Addiction Current Topics In Behavioral Neurosciences

Wolfgang Sommer, Rainer Spanagel



Behavioral Neuroscience Of Drug Addiction Current Topics In Behavioral Neurosciences:

Behavioral Neuroscience of Drug Addiction David W. Self, Julie K. Staley Gottschalk, 2009-12-18 Drug addiction is a chronically relapsing mental illness involving severe motivational disturbances and loss of behavioral control leading to personal dev tation The disorder af icts millions of people often co occurring with other mental illnesses with enormous social and economic costs to society Several decades of research have established that drugs of abuse hijack the brain s natural reward substrates and that chronic drug use causes aberrant alterations in these rewa processing systems Such aberrations may be demonstrated at the cellular neu transmitter and regional levels of information processing using either animal models or neuroimaging in humans following chronic drug exposure Behaviorally these neural aberrations manifest as exaggerated altered or dysfunctional expr sion of learned behavioral responses related to the pursuit of drug rewards or to environmental factors that precipitate craving and relapse during periods of drug withdrawal Current research efforts are aimed at understanding the associative and causal relationships between these neurobiological and behavioral events such that treatment options will ultimately employ therapeutic amelioration of neural de cits and restoration of normal brain processing to promote efforts to abstain from further drug use The Behavioral Neuroscience of Drug Addiction part of the Springer series on Current Topics in Behavioral Neurosciences contains scholarly reviews by noted experts on multiple topics from both basic and clinical neuroscience elds

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Behavioral Neuroscience of Attention Deficit Hyperactivity Disorder and Its Treatment Clare Stanford, Rosemary Tannock, 2012-01-10 In this volume there is a strong emphasis on translational science with preclinical approaches suggesting new directions for development of new treatments Individual chapters describe how neuroimaging neuroendocrine genetic and behavioral studies use powerful research tools that are offering a completely new understanding of the factors that increase vulnerability to ADHD The clinical impact of co-morbid problems especially obesity and substance misuse are highlighted and explain what such problems can tell us about the etiology of ADHD more generally Reviews of the pharmacology of established drug treatments for ADHD justify an exciting novel theory for their therapeutic actions and address questions about the effects of their long-term use

Drugs and the Neuroscience of Behavior Adam Prus, 2017-02-06 The up-to-date Second Edition presents an accessible introduction to the rapidly advancing field of psychopharmacology through an examination of how drug actions in the brain affect psychological processes To help readers develop an appreciation of the development of drug treatments and neuroscience over time the book provides historical background covering major topics in psychopharmacology including discussion on newer drugs and recent trends in drug use Pedagogical features at the forefront of the latest scholarship of teaching and learning are integrated throughout the text to ensure readers are able to easily process and understand the material

Behavioral Neuroscience of Alcohol Addiction Wolfgang H. Sommer, Rainer Spanagel, 2025-09-30 Behavioral Neurobiology of Alcohol Addiction explores the forefront of addiction research integrating fundamental neurobiological mechanisms with translational insights into human phenotypes Alcohol addiction remains a major public health concern with extensive medical and societal implications Understanding its intricate interplay between neurobiology behavior and treatment is essential for developing effective interventions This edition is structured into two volumes Basic Mechanisms and Animal Studies and

Translational Studies and Human Phenotypes The first volume examines addiction conceptualization stress and reward systems and chronic pain It further explores the cellular synaptic and circuit level consequences of alcohol incorporating computational and neuroimaging approaches It also addresses the replication crisis in preclinical research and proposes guidelines to mitigate its impact The second volume shifts the focus to human studies covering human laboratory approaches ecological momentary assessment molecular imaging and the challenges of bridging preclinical and clinical research The book also highlights emerging treatments including psychological interventions neuromodulation techniques and the role of the gut brain axis Alcohol use fundamentally alters mood states via brain mechanisms an insight widely acknowledged by experts and laypeople alike However debates surrounding the brain disease model of addiction have intensified in recent years This collection of articles contributes to this ongoing discussion by reinforcing the importance of a neurobiological perspective in addiction science and demonstrating how advances in neuroscience translate into more effective therapeutic approaches Written by leading experts in the field both volumes provide a comprehensive yet accessible resource for addiction researchers neuroscientists clinicians and students The book aims to deepen the understanding of alcohol addiction and inspire new directions in research and treatment

Behavioral Neuroscience of Orexin/Hypocretin Andrew J Lawrence,Luis de Lecea,2017-05-29 This issue of Current Topics in Behavioral Neuroscience focuses on the neuropeptide orexin hypocretin and brings together scientists from around the world who will provide a timely discussion of how this peptide regulates behavior This is a fast moving field and with the incorporation of novel technologies new breakthroughs are likely to continue For example the use of optogenetic approaches has enabled the identification of the role of orexin containing neurons in arousal states critical for higher order functioning From a clinical perspective genetic polymorphisms in hypocretin orexin and orexin receptors are implicated in a number of psychiatric disorders In addition advanced clinical trials are currently underway for orexin receptor antagonists in the treatment of insomnia and sleep disorders We aim to capture a broad audience of basic scientists and clinicians

Orexin/Hypocretin System ,2012-11-27 Leading authors review the state of the art in their field of investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non specialist Leading authors review the state of the art in their field of investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non specialist

Neurobiology of Addictions Alan C. Swann,F. Gerard Moeller,Marijn Lijffijt,2016-04-24 This book addresses addiction in the context of survival related neurobiological adaptations drawing parallels between addictions and other psychiatric disorders and emphasizes treatment strategies that target its underlying neurobiological mechanisms It will be

useful as a practical guide for clinicians research investigators and trainees in addiction and related fields as well as an informative resource for anyone interested in addiction or mental health policy **Behavioral Neurobiology of Alcohol Addiction** Wolfgang Sommer,Rainer Spanagel,2012-07-28 The question how alcohol alters mood states and why this may end up becoming an addiction is puzzling alcohol researchers since decades In this volume an assembly of highly distinguished experts and leaders in alcohol addiction research provides lucid presentations of the current knowledge and research challenges as well as interesting viewpoints on future research directions aimed to stimulate communication and convergence between clinical and preclinical researchers and to renew interest in the vibrant field of alcohol addiction research among a wide scientifically minded audience Five Current Topics are discussed in this volume Neurobiological mechanisms of alcoholism Genetics Clinical phenotypes and their preclinical models Brain imaging and Translational approaches for treatment development both pharmacological and non pharmacological These areas have in our opinion brought alcohol research substantially forward and influenced our thinking about how to reach our common paramount goal namely to offer effective treatment solutions for an extensive group of patients with largely unmet medical needs

Unveiling the Magic of Words: A Report on "**Behavioral Neuroscience Of Drug Addiction Current Topics In Behavioral Neurosciences**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Behavioral Neuroscience Of Drug Addiction Current Topics In Behavioral Neurosciences**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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